AMENDMENTS TO THE CLAIMS

1. - 14. (Cancelled)

15. (Currently Amended) An oral phototherapy apparatus comprising:

a body sized and shaped so as to fit at least partially in a user's mouth; and

at least one radiation emitter coupled to the body, the radiation emitter being configured to irradiate phototherapeutic radiation from within the oral cavity and in the direction of a region of tissue other than oral tissue; and

a plurality of bristles having ~~The apparatus of claim 10 wherein the bristles have~~ at least one shape, relative to an elongated direction of the bristles, selected from the group consisting of conical, tapered, curved and spiral shapes;

wherein the radiation emitter is configured to emit phototherapeutic radiation having at least one wavelength at a power density sufficient to irradiate the region of tissue from within the oral cavity.

16. (Cancelled)

17. (Currently Amended) An oral phototherapy apparatus comprising:

a body sized and shaped so as to fit at least partially in a user's mouth; and

at least one radiation emitter coupled to the body, the radiation emitter being configured to irradiate phototherapeutic radiation from within the oral cavity and in the direction of a region of tissue other than oral tissue; and

a plurality of bristles having ~~The apparatus of claim 10 wherein bristles further comprise~~ at least one element selected from the group of fluorescent, luminescent or lasing elements;

wherein the radiation emitter is configured to emit phototherapeutic radiation having at least one wavelength at a power density sufficient to irradiate the region of tissue from within the oral cavity.

18. – 20. (Cancelled)

21. (Currently Amended) An oral phototherapy apparatus comprising:

a body sized and shaped so as to fit at least partially in a user's mouth; and

at least one radiation emitter coupled to the body, the radiation emitter being configured to irradiate phototherapeutic radiation from within the oral cavity and in the direction of a region of tissue other than oral tissue; and

~~The apparatus of claim 1 wherein the apparatus further comprises~~ a motion sensor and controller which controls the radiation emitter based on signals from the motion sensor;

wherein the radiation emitter is configured to emit phototherapeutic radiation having at least one wavelength at a power density sufficient to irradiate the region of tissue from within the oral cavity.

22. – 24. (Cancelled)

25. (Currently Amended) An oral phototherapy apparatus comprising:

a body sized and shaped so as to fit at least partially in a user's mouth; and

at least one radiation emitter coupled to the body, the radiation emitter being configured to irradiate phototherapeutic radiation from within the oral cavity and in the direction of a region of tissue other than oral tissue;

at least one thermally conductive element for extracting heat from the radiation emitter, ~~The apparatus of claim 24~~ wherein the thermally conductive element comprises a fluid heat transfer medium; and

wherein the radiation emitter is configured to emit phototherapeutic radiation having at least one wavelength at a power density sufficient to irradiate the region of tissue from within the oral cavity.

26. (Cancelled)

27. (Currently Amended) An oral phototherapy apparatus comprising:

a body sized and shaped so as to fit at least partially in a user's mouth; and

at least one radiation emitter coupled to the body, the radiation emitter being configured to irradiate phototherapeutic radiation from within the oral cavity and in the direction of a region of tissue other than oral tissue;

at least one thermally conductive element for extracting heat from the radiation emitter, ~~The apparatus of claim 24~~ wherein the thermally conductive element comprises a phase change material; and

wherein the radiation emitter is configured to emit phototherapeutic radiation having at least one wavelength at a power density sufficient to irradiate the region of tissue from within the oral cavity.

28. – 51. (Cancelled)

52. – 80. (Withdrawn)